	Application No.	Applicant(s)	
Notice of Allowability	10/720,108	WANG, HWA-SIK	
	Examiner	Art Unit	
	Mohammad Ali	3744	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commercements. This application is	n this application. If not included unication will be mailed in due course. THI	I S ative
1. This communication is responsive to <u>10/25/03</u> .			
2. 🔀 The allowed claim(s) is/are <u>1-9</u> .			
3. \square The drawings filed on <u>25 November 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☒ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have The priority documents have Certified copies of the priority documents have The priority documen	been received. been received in Application cuments have been received of this communication to file ENT of this application.	on No d in this national stage application from the e a reply complying with the requirements	e
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	tted. Note the attached EX es reason(s) why the oath c	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the paper No./Mail Date The each sheet Replacement sheet(s) should be labeled as such in the each sheet Replacement sheet(s) should be labeled as such in the each sheet Replacement sheet(s) should be labeled as such in the each sheet Replacement sheet(s) should be labeled as such in the each sheet Replacement sheet Replacement sheet(s) sheet Replacement sheet(s) sheet Replacement sheet Replacemen	on's Patent Drawing Revie Amendment / Comment o 84(c)) should be written on t be header according to 37 Cl sit of BIOLOGICAL MAT	r in the Office action of he drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 8), 7. ☑ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Moses on 10/07/04. The application has been amended as follows:

The word "unto" in line 3 of claim 5 has been changed to a Phrase ----unit to------.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claim 1 is allowable because the prior art of record fails to disclose or suggest or teach the recited heat exchanger capable of heat-exchanging a high temperature refrigerant from the indoor unit with a refrigerant inputted into 'the outdoor unit, and an expansion unit adapted to receive a refrigerant of the heat exchanger and to expand for cooling the refrigerant are installed in the interior of the heat exchange unit; and a high temperature refrigerant from the indoor unit and a low temperature refrigerant from the outdoor unit are inputted into the heat exchange unit in the heating mode; and the high temperature refrigerant flows through the heat exchanger and the expansion unit and is heat exchanged with the low temperature refrigerant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mohammad Ali whose telephone number is 703-308-

5032. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Esquivel Denise can be reached on 703-308-2597. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

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October 7, 2004

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